

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

MATERIAL SPECIFICATION

MS-211: “BEDDING”

211.1 SCOPE

This specification governs the quality of bedding material used in the foundation of pipelines, conduits and structures.

211.2 QUALITY

Soil material, fine gravel or coarse gravel specified as bedding material shall be durable, non-compressible and be within the grading limits of the Unified Soil Classification System, USCS. The ASTM specifications for classifying soils are: ASTM D-2487, Classification of Soils for Engineering Purposes, and ASTM D-2488, Standard Practice for Description and Identification of Soils (Visual Manual Procedure).

211.3 GRADATION

The following table lists some general properties of materials suitable for bedding. Gradation is unique for each soil in the USCS. The bedding requirements are site specific and shall be shown on the drawings using an identification symbol of the USCS.

Material	USCS	S.G. (Min.)	Size (Max.)
Soil	SW,SP,SM,SC,ML,CL	1.75	#10 Sieve
Fine Gravel	SW,SP,SM,SC	2.00	3/4-inch
Coarse Gravel	GW,GP,GM,GC	2.40	3-inch
	SW,SP,SM,SC		